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Pinning down the linearly-polarised gluons inside unpolarised protons using quarkonium-pair production at the LHC (vol 784, pg 217, 2018)

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Corrigendum

Corrigendum to: “Pinning down the linearly-polarised gluons inside unpolarised protons using quarkonium-pair production at the LHC” [Phys. Lett. B 784 (2018) 217]



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ABSTRACT

We correct a numerical mistake and mislabellings in Fig. 4.

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In the four plots of Fig. 4, the y -axis label should read $2\langle\cos(2, 4)\phi\rangle$ instead of $\langle\cos(2, 4)\phi\rangle$ and, in addition, the curves of Fig. 4 (a) & (b) should be divided by 2. Overall, Fig. 4 should be replaced by a new figure (Fig. 1).

Correspondingly, in the section 6 and the caption of Fig. 4, $\langle\cos(2, 4, n)\phi\rangle$ should all read $2\langle\cos(2, 4, n)\phi\rangle$. On page 221, “ $\langle\cos 2\phi\rangle$ nearly reaches 30%” should read “ $2\langle\cos 2\phi\rangle$ nearly reaches 15%”. Our conclusions remain unchanged.

References

- [1] R. Aaij, et al., J. High Energy Phys. 06 (2017) 047.
- [2] V. Khachatryan, et al., J. High Energy Phys. 09 (2014) 094.
- [3] M. Aaboud, et al., Eur. Phys. J. C 77 (2017) 76.

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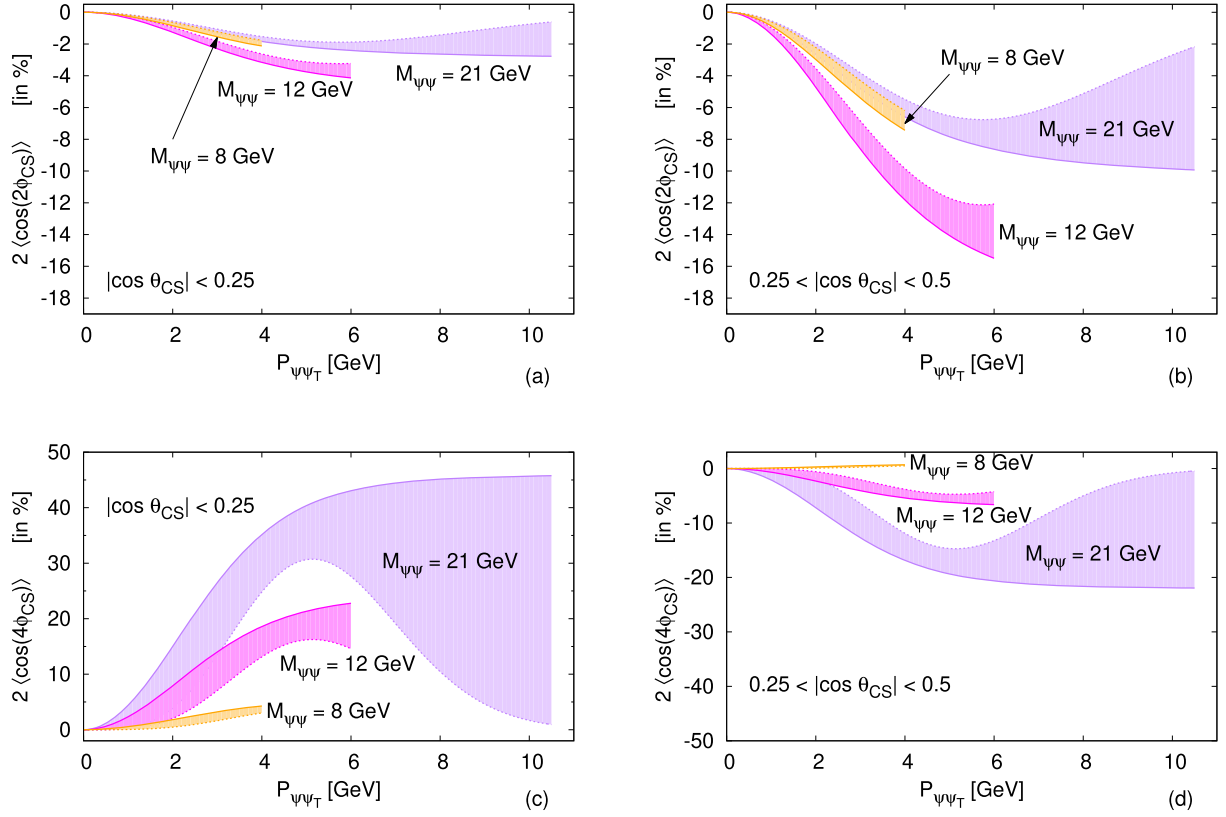


Fig. 1. $2\langle\cos n\phi_{CS}\rangle$ for $n = 2, 4$ computed for $|\cos\theta_{CS}| < 0.25$ and for $0.25 < \cos\theta_{CS} < 0.5$ for $\langle k_T^2 \rangle = 3.3 \text{ GeV}^2$ for 3 values of $M_{Q\bar{Q}}$ (8, 12 and 21 GeV) relevant respectively for the LHCb [1], CMS [2] and ATLAS [3] kinematics. The spectra are plotted up to $M_{Q\bar{Q}}/2$. Our results do not depend on $Y_{Q\bar{Q}}$. The uncertainty bands result from the use of both our models of h_1^{1-g} . The solid line, which shows the largest asymmetries corresponds to the Model 2 (saturation of the positivity bound) and the dashed line to Model 1.